

THE 1990s

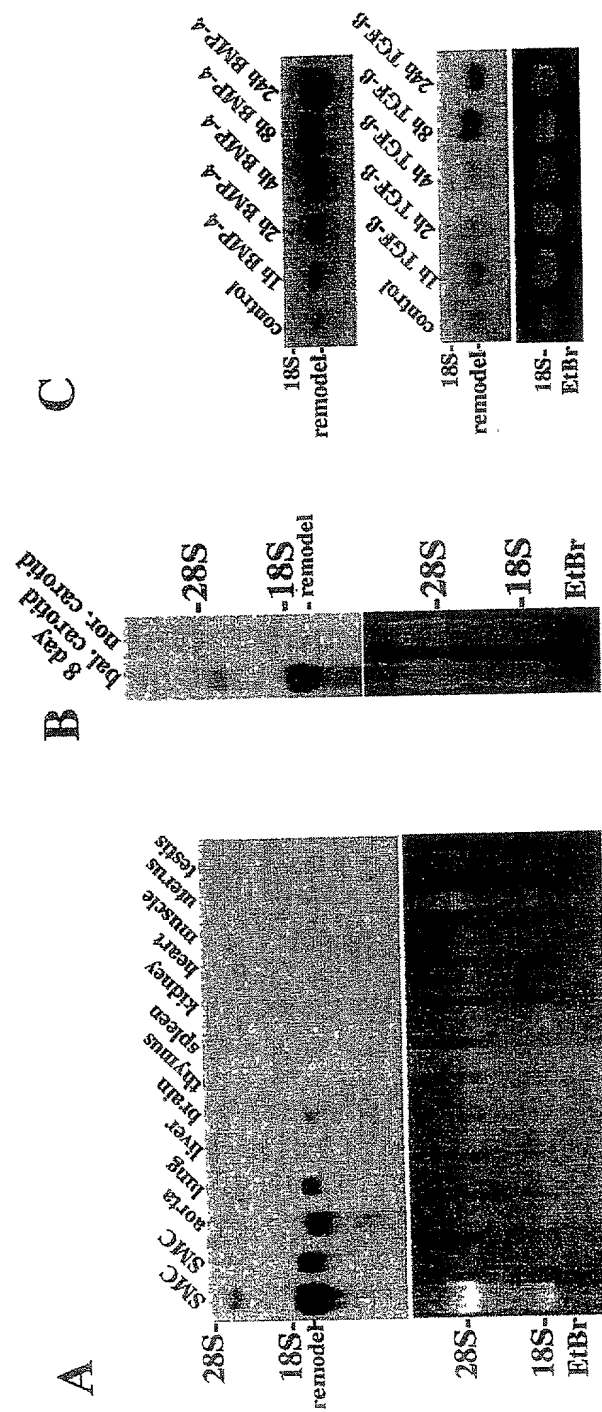


FIG 1

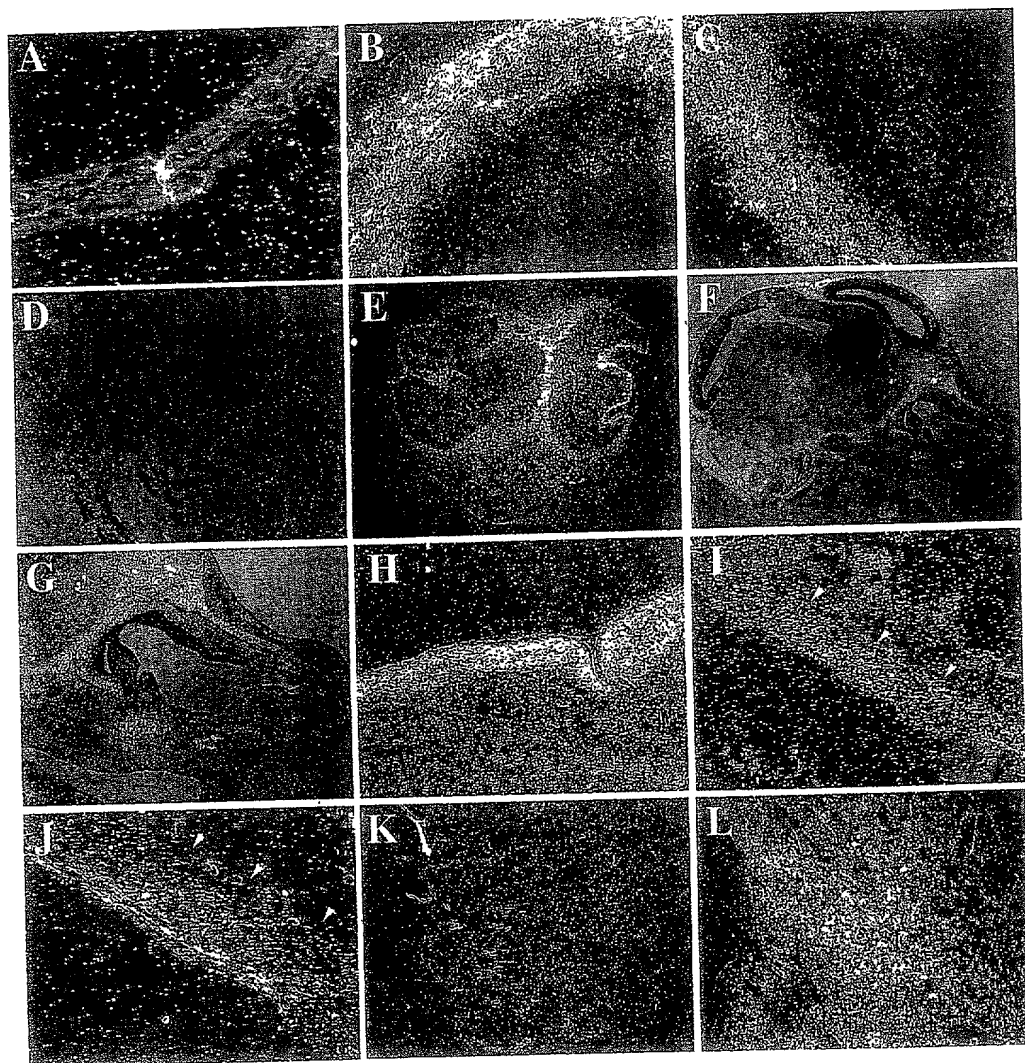


FIG. 2

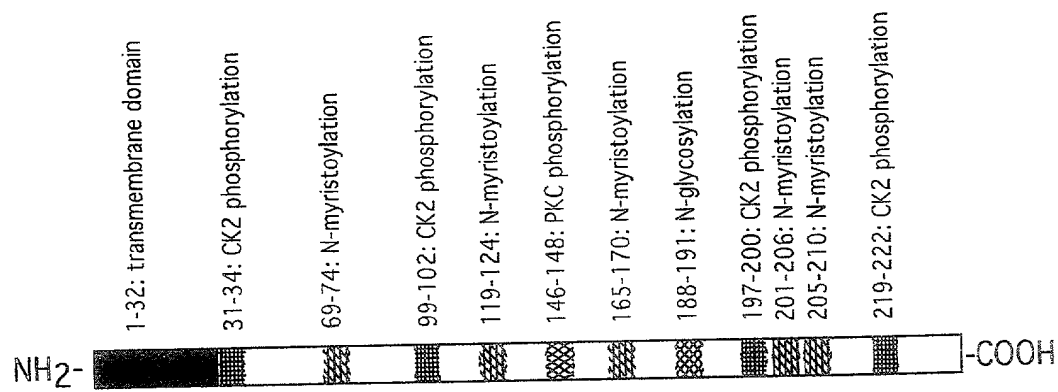


FIG. 3

		30	40	50	60	70
Rat		<u>A</u> TGCGGGCCGCCGCAGAGCTGGGC-----CAGACGCTGAGCAGGGCCCCGGCTCTGCCGAC				
Human		ACGGAAGCGGCCCTCGGAGCGGCCGCAGCGACCGTGCACCGGTTCCT-CTCCTCGGTG				
		10	20	30	40	50
		80	90	100	110	120
Rat		CCCTTTGGCCTCCTGCTCTGCGCTTGCGAGCTACCGCACAC <u>G</u> TGCACCCCCAAGGGCGCG				
Human		TCTCCGCTCCCAAGCTTCCGCGCTGCCCGCAGCGCGGAGCC <u>A</u> TGCACCCCAGGGCCCCG				
		70	80	90	100	110
		140	150	160	170	180
Rat		CCGCCTCCCCACAGCTGCTGCTCGGCCCTTCTCTTGTGCTACTGCTGCTCTGCAGCTGT				
Human		CCGCCTCCCCGACGGCTCGCGGCCCTCTCT-----GCTGCTCTGTGCTGCTGCAGCTGC				
		130	140	150	160	170
		200	210	220	230	240
Rat		CCGCGCCGCTCCAGCGCCTCTGAGAATCCCAAGGTGAAGCAA ^{AA} AGCGCTGATCCGGCAGA				
Human		CCGCGCCGCTCGAGCGCCTCTGAGATCCCCAAGGGGAAGCAA ^{AA} AGCGCAGCTCCGGCAGA				
		180	190	200	210	220
		260	270	280	290	300
Rat		GGGAAGTGGTAGACTTGATAATGGGAGTGCCTACAAGGACAGCAGGAGTCTCTGGTCT				
Human		GGGAGTGGTGGACCTGTATAATGGAAATGTGCTTACAAGGGCCAGCAGGATGGCTGGTCT				
		240	250	260	270	280
		320	330	340	350	360
Rat		GCGATGGGAGCCCTGGGGCCAATGGCATCTCTGSCACACGGGAATCCGAGTCGGGATG				
Human		GAGACGGGAGCCCTGGGGCCAATGGCATCTCCGGGTACACCTGGGATCCGAGTCCGGATG				
		300	310	320	330	340
		380	390	400	410	420
Rat		GATTCAAAGGAGAGAAAAGGGGAGTGCTTAAGGGAAAGCTTTGAGGAATCCTGGACCCAA				
Human		GATTCAAAGGAGAAAAGGGGGAATGTCTGAGGGGAAGCTTTGAGGAGTCTCTGGACACCA				
		360	370	380	390	400
		440	450	460	470	480
Rat		ACTACAAGCAGTGTTCATGGAGTTCACCTAATTAATGGCATAGATCTTGGGAAAAATGCGG				
Human		ACTACAAGCAGTGTTCATGGAGTTCATGAATTAATGGCATAGATCTTGGGAAAAATGCGG				
		420	430	440	450	460
		500	510	520	530	540
Rat		AATGTACATTCACAAAGATGCGATCCAACAGCGCCTCTTCGAGTCTTGTTTCAAGTGGCTCG				
Human		ATGTGTACATTTACAAGATGCGCTCAATAGTGCTCTAAGAGTTTGTTCAGTGGCTCAC				
		480	490	500	510	520
		560	570	580	590	600
Rat		TTCCGGCTCAAATGCAGGAATGCTTGCTGTCAACGCTGGTATTTTACCTTTAATGGAGCTG				
Human		TTCCGGCTAAAATGCAGAAATGCATGCTCTCAGCGTTGGTATTTACATTCAAATGGAGCTG				
		540	550	560	570	580
		620	630	640	650	660
Rat		AATGTTTCAGGACCTCTTCCCATGAAGCTATCATCTCTGAGCCAAAGGAAGCCCTGAGT				
Human		AATGTTTCAGGACCTCTTCCCATGAAGCTATAATTTATTGGACCAAGGAAGCCCTGAAA				
		600	610	620	630	640
		680	690	700	710	720
Rat		TAAATTCAACTATTAATATTCATCTACTTCCCTCGGTGGAAGGACTCTGTGAAGGGATTG				
Human		TGAATTCACAAATTAATATTCATCGCACTTCTCTGTGGAAGGACTTGTGAAGGAATTG				
		660	670	680	690	700
		740	750	760	770	780
Rat		GTGCTGGAGCTGATGACGTGGGCACCTGGGTGCGGACCTGTCAGATTACCCCAAAGGAG				
Human		GTGCTGGATTAGTGGATGTGTCTATCTGGGTGGCAGCTGTTGTCAGATTACCCCAAAGGAG				
		720	730	740	750	760
		800	810	820	830	840
Rat		ACGCTTCTACGTGGGTGAATCTGTGTCCCGCATCATCATTGAAGAACTACCAAAAATAA				
Human		ATGCTTCTCATCGGATGGAATTCAGTTTTCTCGCATCATATTGAAGAACTACCAAAAATAA				
		780	790	800	810	820
		860	870	880	890	900
Rat		GCCCCTGAAAGTTTCATTCCTCGCTCATTTACTTGTTAATCAAGCCTCTGGATGGGTC				
Human		TGCTTTAAT--TTTCAATTGCTCACTCTTTTTT-----ATTATGCTTGGAAATGGTTC				
		840	850	860	870	880
		920	930	940	950	960
Rat		ATTTAATGACATTTTCAGAGTCACTTATGTGCTCAGCCAAATGAAAAAGCAAGTTAAA				
Human		ACTTAATGACATTTTA-AAATAGTTTATGTATACATCTGAATGAAA-GCAAGCTAAA				
		890	900	910	920	930
		980	990	1000	1010	1020
Rat		TACGTTTACAGACCAAAGTGTGATCTCACACT---TTAAGATCAGCAATTATCCATTTTA				
Human		TATGTTTACAGACCAAAGTGTGATTTACACTGTTTAAATCATCAGCATTTATCATTTTG				
		950	960	970	980	990
		10				

Figure 4A

Rat:	1	MHPQGRAASQQLLGLFLVLLLLLQLSAPSSASENPKVKQKALIRQREVVDLYNGMCLQG	60
		M+PQG+AAFPQ+L+GL+++LLLLLQL+APSSASE+PK+KQKA++RQREVVDLYNGMCLQG	
Human:	1	MRPQGPAASPQRLRGL--LLLLLQLPAPSSASEIPKGKQKAQLRQREVVDLYNGMCLQG	58
Rat:	61	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGEGECLRESFEESWTPNYKQCSWSSLNYGI	120
		PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGEGECLRESFEESWTPNYKQCSWSSLNYGI	
Human:	59	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGEGECLRESFEESWTPNYKQCSWSSLNYGI	118
Rat:	121	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYIL	180
		DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYIL	
Human:	119	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYIL	178
Rat:	181	DQGSPELNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIII	240
		DQGSPE+NSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIII	
Human:	179	DQGSPEMNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIII	238
Rat:	241	EELPK 245	
		EELPK	
Human:	239	EELPK 243	

Figure 4B

MRPAAELGQTL SRAGLCRPLCLLLCASQLPHTMHPQGRAASPQLLLGLFLVLLLLLQL
 SAPSSASENPKVKQKALIRQREVVDLYNGMCLQGPAGVPGRDGSPGANGIPGTPGIPG
 RDGFKGEKGECLRESFEESWTPNYKQCSWSSLNYGIDLGKIAECTFTKMRSNSALRVL
 FSGSLRLKCRNACCQRWYFTFNGAECGPLPIEAI IYLDQGSPELNSTINIHR TSSVE
 GLCEGIGAGLVDVAIWVGTCSDYPKGDA STGWNSVSR I I I EELPK

FIG. 4C

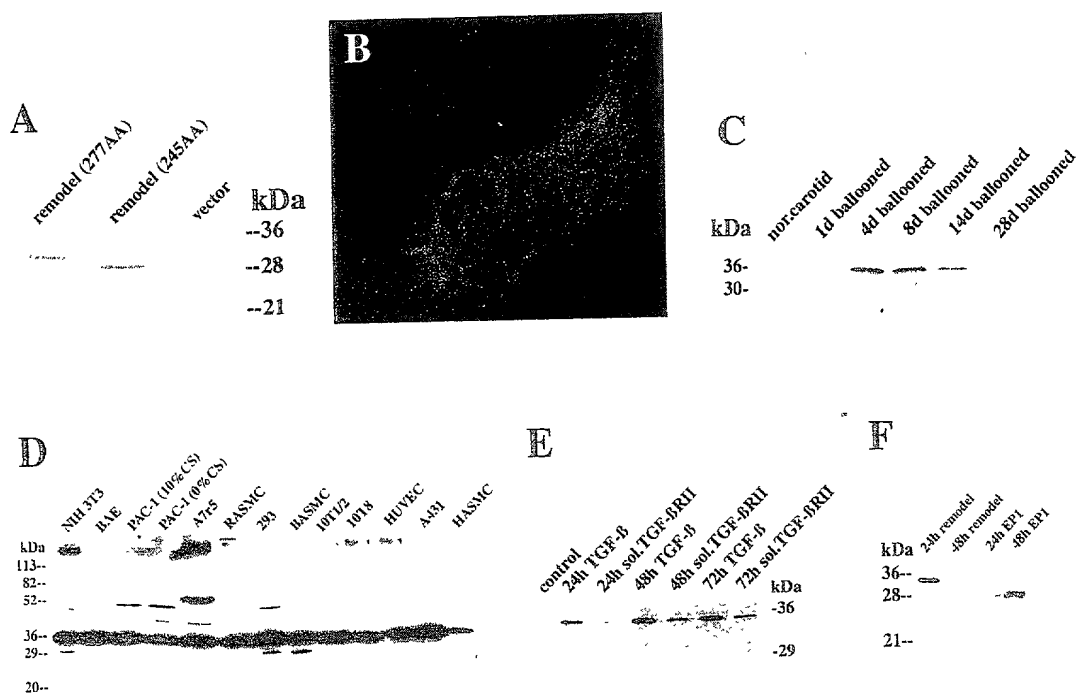


Figure 5

Figure 6

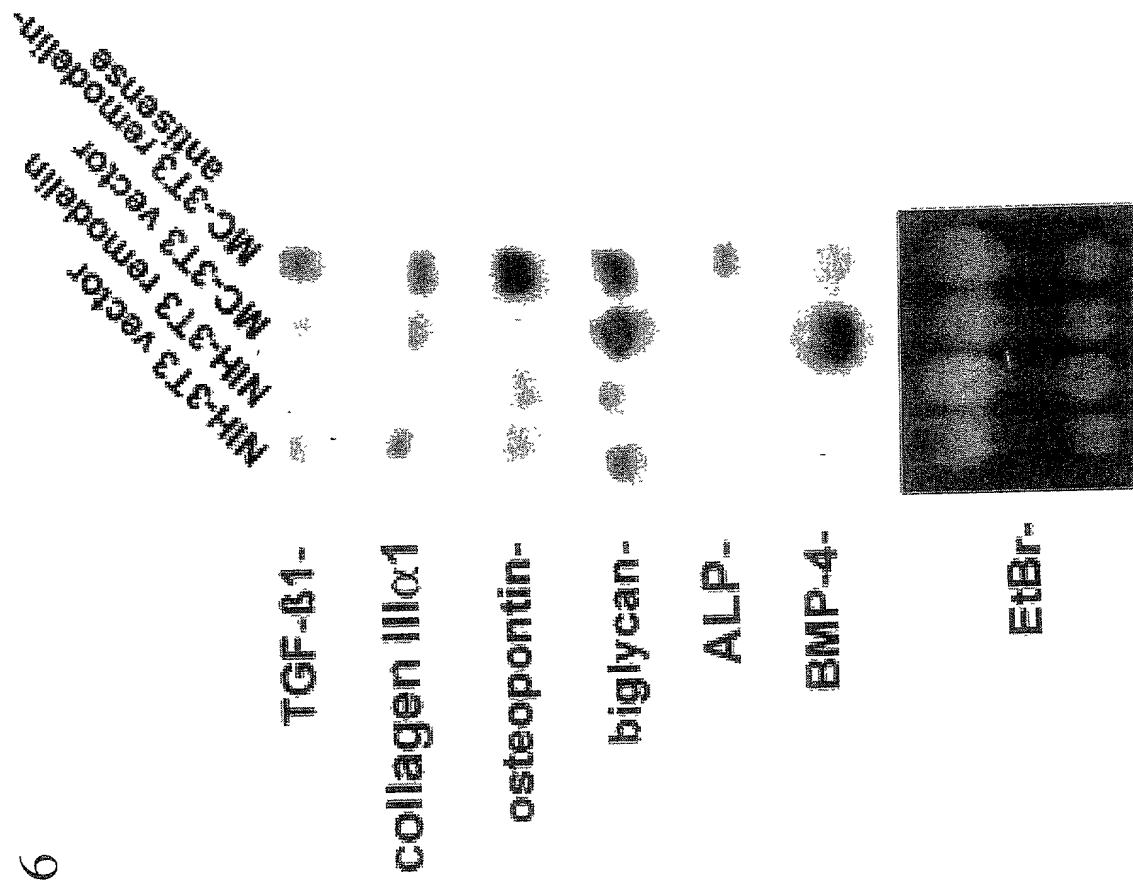


Figure 7

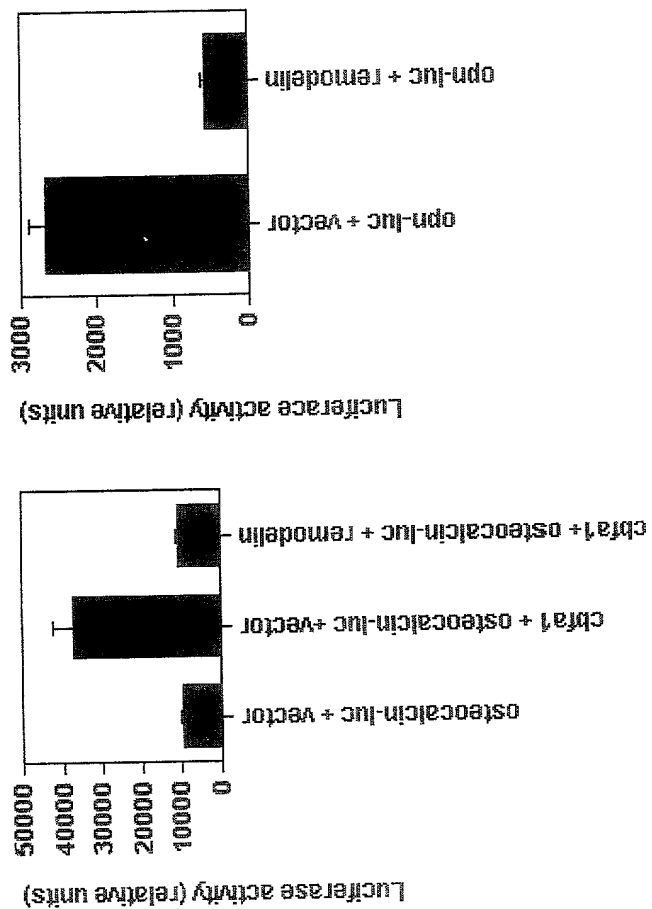
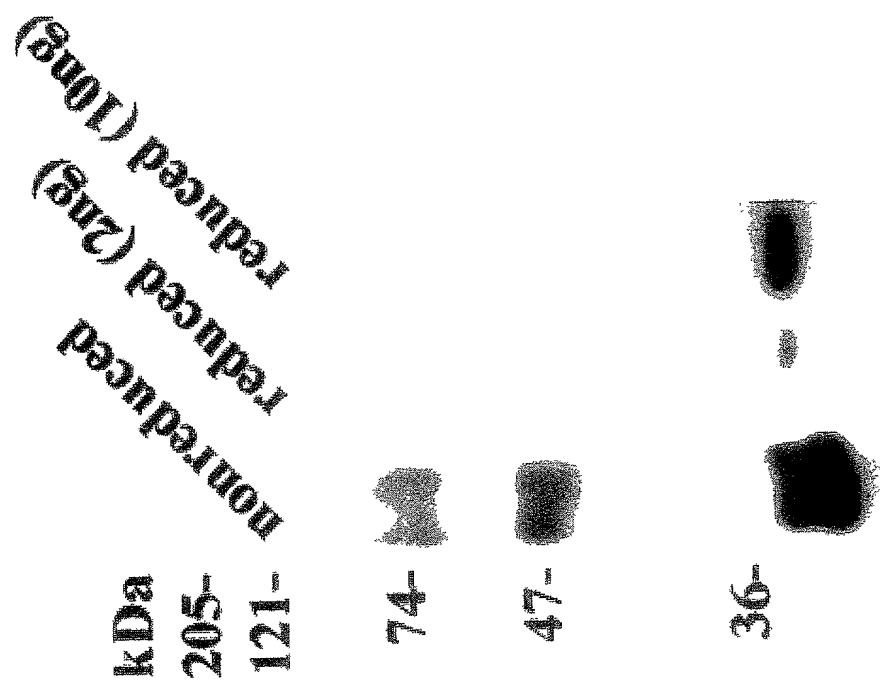


Figure 8



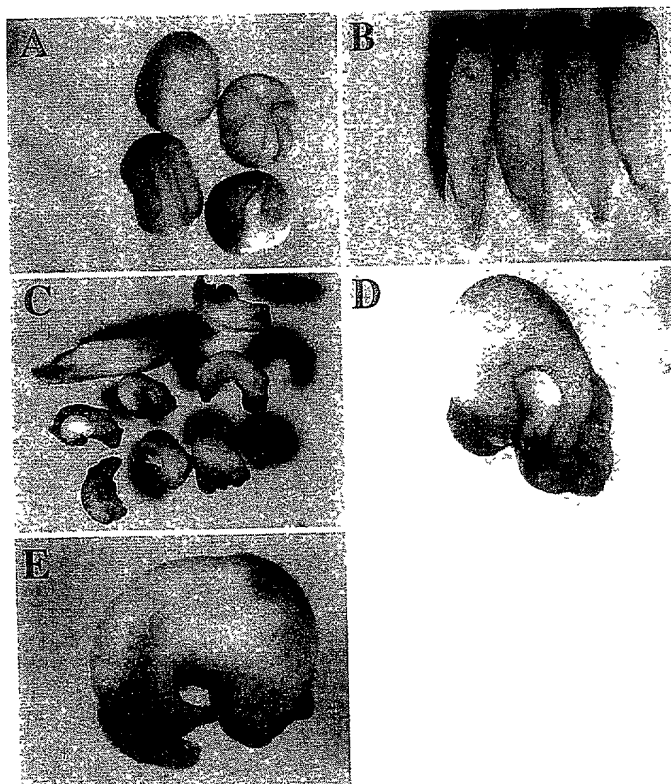


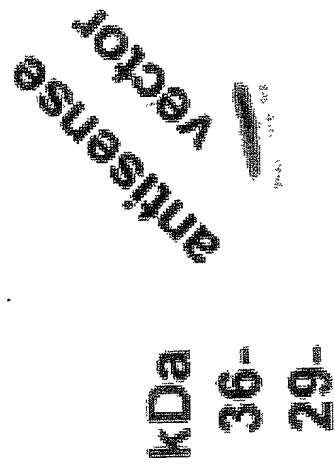
Figure 9

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ATG GCCCCAAGG CCGCGCCGCC TCCCCACAGC TGCTGCTCGG CCTCTTCCTT GTGCTACTGC
TGCTTCTGCA GCTGTCCGCG CCGTCCAGCG CCTCTGAGAA TCCCAAGGTG AAGCAAAAAG
CGCTGATCCG GCAGAGGGAA GTGGTAGACC TGTATAATGG GATGTGCCTA CAAGGACCAG
CAGGAGTTCC TGGTCGCGAT GGGAGCCCTG GGGCCAATGG CATTCCTGGC ACACCGGGAA
TCCCAGGTCG GGATGGATTG AAAGGAGAGA AAGGGGAGTG CTTAAGGGAA AGCTTTGAGG
AATCCTGGAC CCCAAACTAC AAGCAGTGTT CATGGAGTTC ACTTAATTAT GGCATAGATC
TTGGGAAAAT TGCGGAATGT ACATTCACAA AGATGCGATC CAACAGCGCT CTTCGAGTTC
TGTTCAAGTG CTCGCTTCGG CTCAAATGCA GGAATGCTTG CTGTCAACGC TGGTATTTTA
CCTTTAATGG AGCTGAATGT TCAGGACCTC TTCCCATTGA AGCTATCATC TATCTGGACC
AAGGAAGCCC TGAGTTAAAT TCAACTATTA ATATTCATCG TACTTCCTCC GTGGAAGGAC
TCTGTGAAGG GATTGGTGCT GGACTGGTAG ACGTGGCCAT CTGGGTCGGC ACCTGTTCAG
ATTACCCCAA AGGAGACGCT TCTACTGGGT GGAATTCTGT GTCCCGCATC ATCATTGAAG
AACTACCAAA A

Figure 10

Figure 11



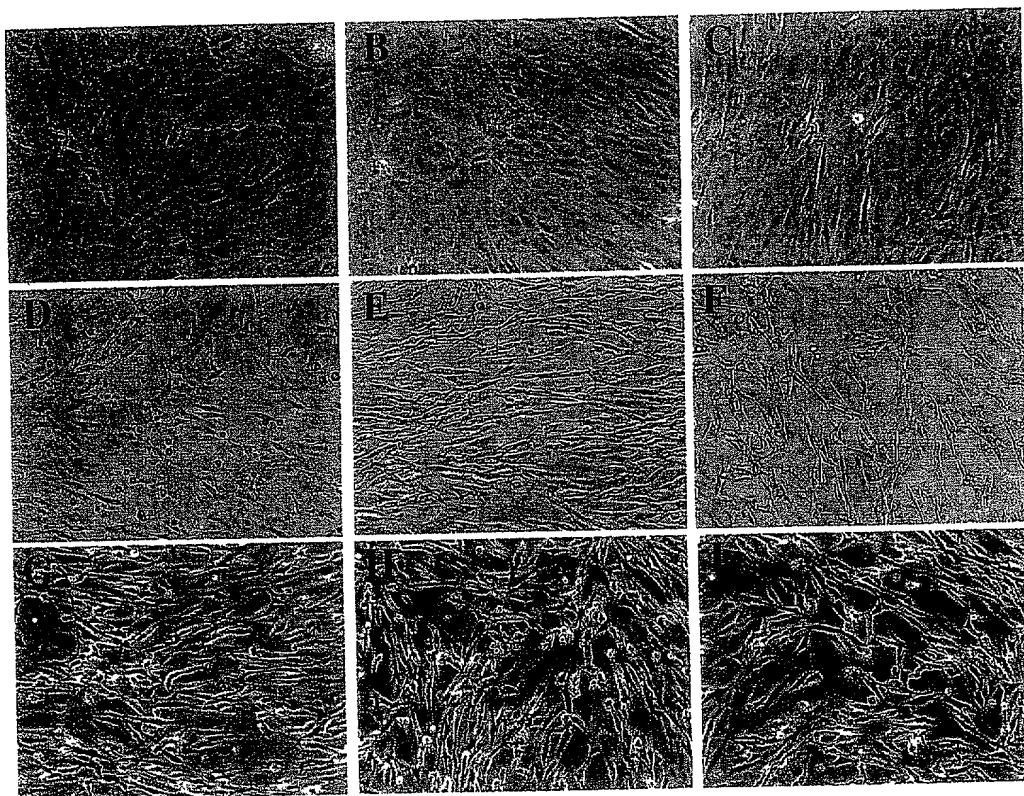


Figure 12

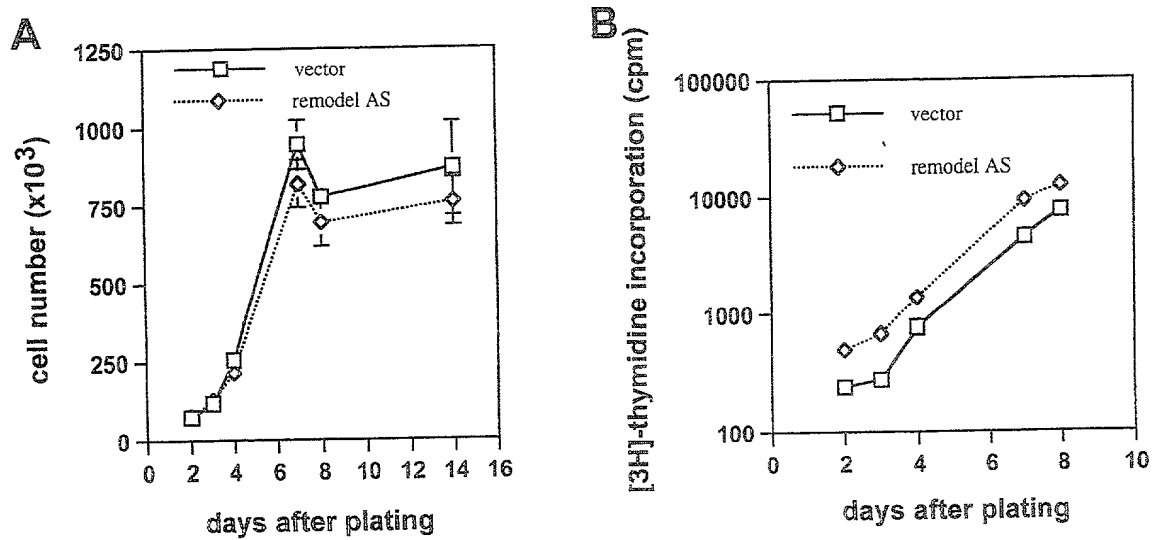


Figure 13

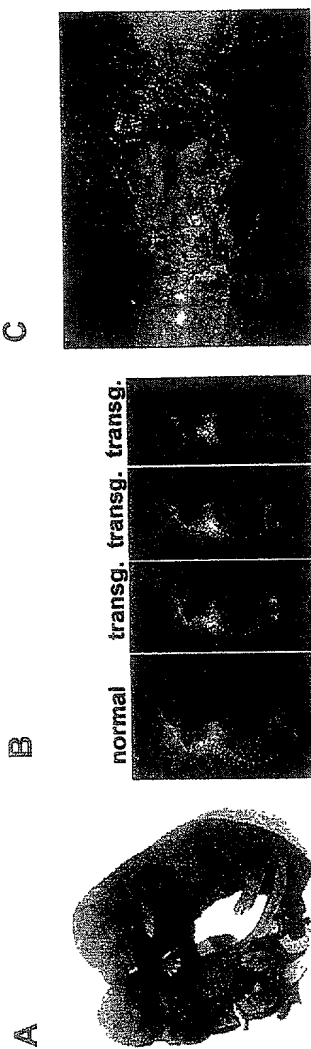
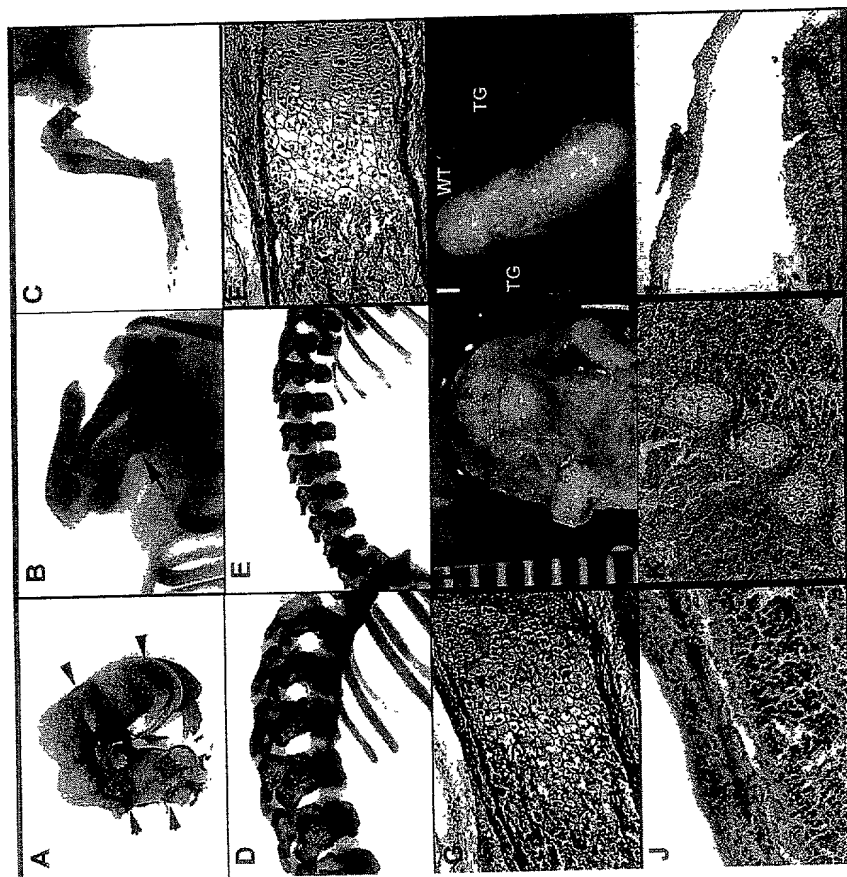


Figure 14

Figure 15



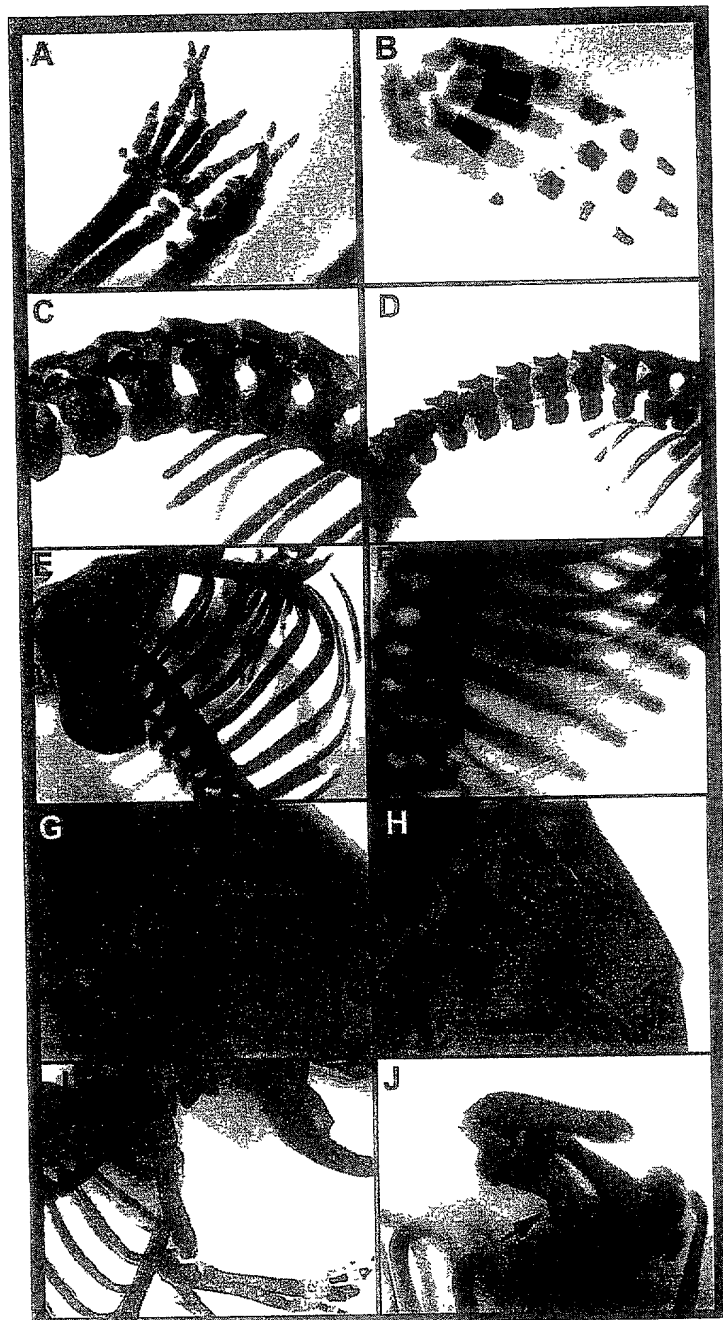


Figure 16

Figure 17

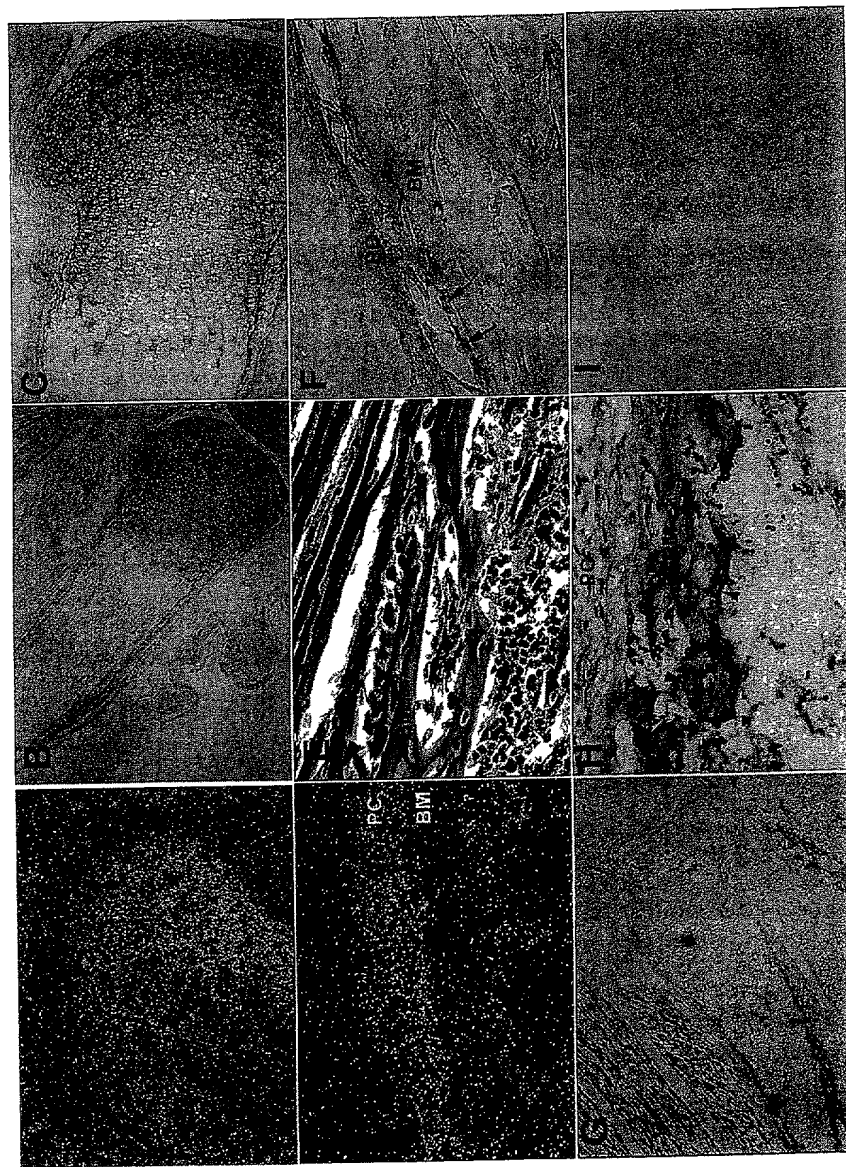
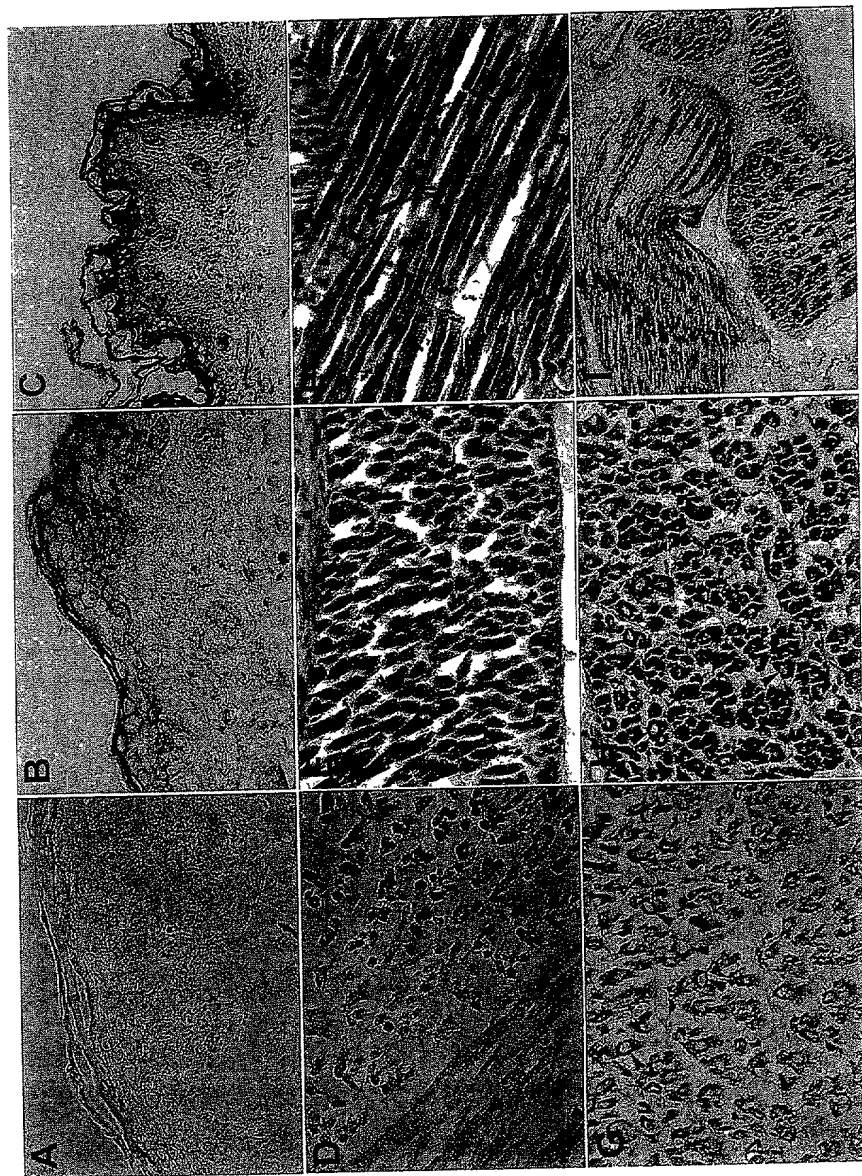


Figure 18



CCACCCAGUAGAAGCGUCUCCUUUGGGGUAUUCUGAACAGGUGCCGACCCAGAUGGCC
 ACGUCUACCAGUCCAGCACCAAUCCCUUCACAGAGUCCUCCACGGAGGAAGUACGAU
 GAAUAAUAAUAGUUGAAUUUAACUCAGGGCUUCCUUGGUCCAGAUAGAUGAUAGCUUC
 AAUGGGAAGAGGUCCUGAACAUUCAGCUCCAUAUAAAGGUAAAAUACCAGCGUUGACAG
 CAAGCAUCCUGCAUUGAGCCGAAGCGAGCCACUGAACAGAACUCGAAGAGCGCUGU
 UGGAUCGCAUCUUUGUGAAUGUACAUCUCCGCAAUUUCCCAAGAUUAUGCCAUAAUU
 AAGUGAACUCCAUGAACACUGCUUGUAGUUUGGGGUCCAGGAUCCUCAAAAGCUU

Figure 19